

Atlas

DUAL-STAGE SNOW THROWER

MODEL A5230 A8250 A8280 A1032

**SAFETY INSTRUCTIONS (ANSI B71.3-1975)
READ THIS MANUAL CAREFULLY BEFORE OPERATING EQUIPMENT!**

TRAINING

1. Read this owner's manual carefully. Be thoroughly familiar with the controls and proper use of the equipment. Know how to stop the unit and disengage the controls quickly.
2. Never allow children to operate equipment. Never allow adults to operate equipment without proper instruction.
3. Keep the area of operation clear of all persons, especially small children and pets.
4. Exercise caution to avoid slipping or falling.

PREPERATION

1. Thoroughly inspect the area where the equipment is to be used and remove all door mats, sleds, boards, wires and other foreign objects.
2. Disengage all clutches before starting engine.
3. Do not operate equipment without wearing adequate winter outer garments. Wear footwear which will improve footing on slippery surfaces.
4. Handle fuel with care, it is highly flammable.
 - (a) Use approved fuel container.
 - (b) Never add fuel to a running engine or hot engine.
 - (c) Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors.
 - (d) Replace gasoline cap securely and wipe up spilled fuel.
5. Use extension cords and receptacles as specified by the manufacturer, for all units with electric drive motors or electric starting motors.
6. Adjust collector housing height to clear gravel or crushed rock surface.
7. Never attempt to make any adjustments while engine is running.
8. Let engine and machine adjust to outdoor temperatures before starting to clear snow.
9. The operation of any powered machine can result in foreign objects being thrown into the eyes. Always wear safety glasses or eye shields during operation or while performing an adjustment or repair.

OPERATION

1. Do not put hands or feet near rotating parts. Keep clear of discharge opening at all times.
2. Exercise extreme caution when operating on or crossing a gravel drive, walks, or roads. Stay alert for hidden hazards or traffic.
3. After striking a foreign object, stop the engine, remove wire from spark plug and keep wire away from plug to prevent accidental starting, thoroughly inspect the snow thrower for any damage, and repair the damage before restarting and operating the snow thrower.

4. If the unit should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
5. Stop engine whenever you leave the operating position, before unclogging the collector/impeller housing or discharge guide, and making any repairs, adjustments, or inspections.
6. Take all possible precautions when leaving the vehicle unattended. Stop the engine, and remove the key.
7. When cleaning, repairing, or inspecting make certain collector/impeller, and all moving parts have stopped. Disconnect spark plug wire and keep wire away from plug to prevent accidental starting.
8. Do not run engine indoors, except when starting engine and for transporting snow thrower in or out of building. Open outside doors. Exhaust fumes are dangerous.
9. Do not clear snow across face of slopes. Exercise extreme caution when changing direction on slopes. Do not attempt to clear steep slopes.
10. Never operate snow thrower without proper guards, plates, or other safety protective devices in place and in operating condition.
11. Never operate snow thrower near glass enclosure, automobiles, window wells, drop-off, etc. without proper adjustment of snow discharge angle. Keep children and pets away.
12. Do not overload machine capacity by attempting to clear snow at too fast a rate.
13. Never direct discharge at bystanders or allow anyone in front of unit.
14. Disengage power to collector/impeller when transporting or not in use.
15. Use only attachments and accessories approved by manufacturer of snow thrower.
16. Never operate the snow thrower without good visibility or light. Always be sure of your footing and keep a firm hold on the handles and walk, never run.

MAINTENANCE AND STORAGE

1. Check all bolts, engine mounting bolts, etc. at frequent intervals for proper tightness to be sure equipment is in safe working condition.
2. Never store machine with fuel in the fuel tank inside a building where open flame or spark are present. Allow engine to cool before storing in any enclosure.
3. Always refer to owner's guide instructions for important details if snow thrower is to be stored for an extended period.
4. Run machine a few minutes after throwing snow to prevent freeze up of collector/impeller.
5. Maintain or replace safety and instruction labels, as necessary.

SAVE THIS LITERATURE — THERE WILL BE A HANDLING SERVICE CHARGE OF \$2.50 FOR ITS REPLACEMENT

SERVICE DEPARTMENT 201 EAST BRINK ST. HARVARD, ILLINOIS 60033

LIMITED WARRANTY

The manufacturer warrants the chassis of each new snow thrower against defects in material or workmanship under normal use and service. The manufacturer's obligation under this warranty is limited to repairing or replacing any defective chassis or parts which are returned to the factory or an authorized service station within one year after delivery of the snow thrower to the original purchaser, except that, in the case of commercial or rental units, the chassis must be returned to the factory or service station within 30 days after delivery of the unit to the original purchaser. (The address of the factory is shown below. A list of the names and addresses of authorized service stations is also supplied. Requests for additional lists should be directed to the factory at the address below.)

This warranty does not cover the engine, or accessory equipment used with or attached to the snow thrower. The Engine Manual should be referred to for details of any warranty that may be extended by the manufacture of the engine.

This warranty does not cover any damage caused by misuse, negligence, accident, improper repair or maintenance of the snow thrower or damage resulting from operation of the snow thrower in an unbalanced condition.

This warranty is the manufacturer's only express warranty, written or oral, on the snow thrower and no other statement, agreement or representation by any person shall be binding on the manufacturer.

ANY IMPLIED WARRANTIES, INCLUDING MERCHANTABILITY, EXPIRE AT THE END OF ONE YEAR AFTER DELIVERY OF THE SNOW THROWER TO THE ORIGINAL PURCHASER. THE MANUFACTURER SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES RESULTING FROM BREACH OF WARRANTY, NEGLIGENCE, OR ANY OTHER CAUSE. Some states do not allow limitations on how long an implied warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

If any defects are discovered in materials or workmanship, the manufacturer or an authorized service station should be promptly notified. Neither the snow thrower nor any parts should be returned to the factory without written permission. Any part sent to the factory must be shipped transportation charges prepaid. Repaired or replaced parts will be returned transportation charges prepaid.

For future reference, record below the name of the dealer from whom you purchased this equipment and date of purchase. DO NOT MAIL TO THE MANUFACTURER — — KEEP FOR YOUR FILE

Dealer _____ Date of Purchase 8 Nov 84
Model No. A5230 Serial No. _____

SERVICE DEPARTMENT

201 EAST BRINK ST.

HARVARD, ILLINOIS 60033

Setting Up Instructions

Your new snowthrower has been completely assembled and adjusted at the factory. For shipping purposes:

1. The folding handle (4) is in the down position.
2. The discharge direction control rod (2) is out of the front support bracket (7).
3. The snow chute deflector (8) is folded in the down position.
4. The speed select rod is tied to the discharge direction control rod (2).

To Assemble Your New Snowthrower:

1. Cut and discard 2 plastic ties on the discharge direction control rod and one that secures the right hand control cable to the plastic wing nut on the right side of the handle. Remove and discard plastic cap from wormed end of discharge direction control rod.
2. Remove the "eye bolt" (1) from the left hand side of the handle.
3. Remove the cap screw (3) from the right hand side of the handle.
4. Swing the upper handle (4) into the operating position and tighten both wing nuts (5).
5. Replace "eye bolt" (1) and tighten.
6. Replace cap screw (3) and tighten.
7. Rotate the toothed section of the discharge chute (6) toward the discharge direction control rod bracket (7). Install wormed end of rod (2) through hole in bracket. Secure with flat washer and cotter pin supplied.

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- 8a. Remove plastic wing nut, flat washers, lockwasher, and carriage bolt from discharge chute #6. Pull back on deflector #8 until slotted hole in deflector aligns with hole in chute. Replace carriage bolt, flat washers, lockwasher, and plastic wing nut. Set deflector to desired height and tighten wing nut.

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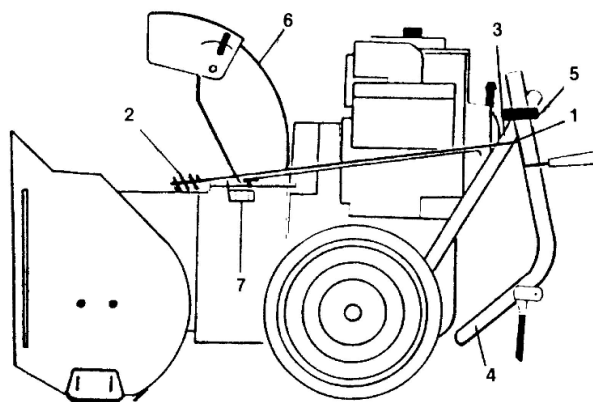
- 8b. Pull back on deflector (8) and set deflector to desired height.
9. Remove and discard rubber bands attached to cables and hand clutch levers (they are for shipping only).

Models A 8280, A 1032

- 10a. Remove cotter pin and washer from the speed control rod. Move speed select lever into 6th gear. Insert rod (the end with the 90° bend) into the speed select brkt. hole (the one farthest from the pivot) from the right hand side. Install washer and cotter pin and secure cotter pin. Move speed select lever into 1st gear reverse. Attach ball joint to speed select lever with lockwasher and nut supplied, and tighten. The speed control rod and ball joint have been pre-adjusted at the factory and should not require re-adjustment.

Models A 5230, A 8250

- 10b. Remove cotter pin and washer from the speed control rod. Move speed select lever into 6th gear. Insert rod (the end with the 90° bend) into the speed select brkt. hole (the one nearest from the pivot) from the right hand side. Install washer and cotter pin and secure cotter pin. Move speed select lever into 1st gear reverse. Attach ball joint to speed select lever with lockwasher and nut supplied, and tighten. The speed control rod and ball joint have been pre-adjusted at the factory and should not require re-adjustment.
11. **Optional:** For shipping, the drift cutters are attached to the side plates by the front mounting bolts. Loosen the front bolts and remove the rear mounting bolts, turn the drift cutter until the rear mounting holes in the drift cutter and side plates are lined up, replace the rear mounting bolts, using an adjustable wrench, tighten both rear and front bolts securely.



III. 1

Pre-Operation Instructions

Reference to right and left hand side of the snowthrower is from the operators position at the handle.

Before attempting to use your snowthrower, read carefully all the operating instructions and be sure you understand the function and location of all controls. Read again the rules for safe operation at the front of this manual.

Before Starting Engine

1. Position the snowthrower on a level surface and remove the oil filler plug.
2. With the use of an oil trough add the oil [REDACTED]. Pour oil slowly to prevent air lock.
3. After the oil has been added **and checked for proper level** replace oil filler plug. (See Engine Manual)
4. Initially change oil after the first five (5) hours of operation. Use SAE5W20 oil.
5. Subsequently, change oil after twenty-five (25) operating hours. If less than 25 hours, change oil every year.

NOTE: Check oil level every five (5) operating hours or each time the snowthrower is used. Over filling the engine may affect performance. Tighten filler plug securely to prevent leakage.

Fill the snowthrower fuel tank with a fresh supply of clean regular gasoline (see engine manual).

NOTE: Winter grade gasoline has higher volatility to improve starting. Do not use gasoline left over from the previous year or summer.

Do not mix oil with gasoline. Premium gasoline, gasoline additives and white gas **must not be used**.

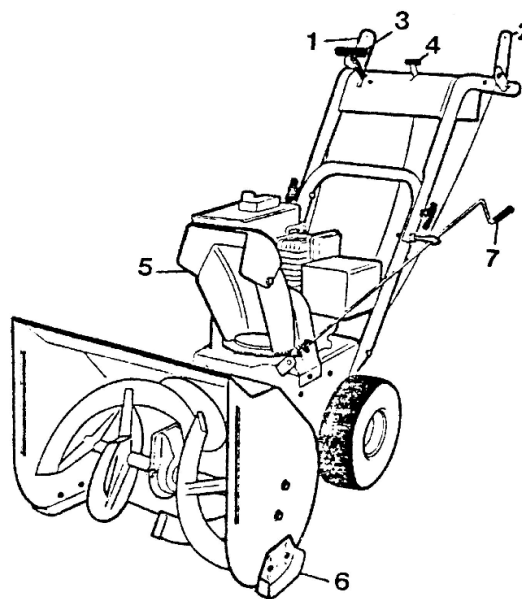
Prevent ice buildup on the fuel tank and the fuel tank cap to keep vent hole from plugging.

Know Your Controls

Refer to III. 2 on this page.

1. Auger drive clutch - used to engage and disengage the auger and impeller. To engage, push down, to disengage release.
2. Traction drive clutch - used to propel snowthrower forward or reverse. Push down to engage, release to disengage.
3. Speed select lever allows the operator to use one of six (6) forward and two (2) reverse speeds. To shift, move speed select lever to desired position.

NOTE: Do not move speed selector lever while traction drive clutch is engaged.



III. 2

4. Throttle control - used to start, stop and operate the engine at different speeds. For optimum snow-throwing efficiency use fast position. Push forward on control for fast - pull back for slow or stop.
5. Snow chute deflector - used to adjust the height and distance of the discharged snow stream.
6. Height adjust skid - used to adjust ground clearance of auger housing.
7. Snow chute direction handle - used to discharge snow in the desired direction.

Starting Instructions

NOTE: All small gasoline engines tend to be difficult to start in cold weather. Since this snowthrower will always be used in cold weather, we recommend you store it in a protected area.

1. Be sure impeller drive clutch and traction drive clutch are in the disengaged position.
2. Move throttle control forward (DOWN) to "FAST" position. Insert key into ignition slot.

3. Move choke lever to "FULL" choke position.
4. When temperature is below 10°F (-12°C) depress primer button two or three times (if engine is equipped with primer button). This will inject fuel into the carburetor.
5. Pull the recoil starter handle slowly until the recoil engages, then give recoil a short quick pull. Do not allow starter rope to snap back. Pull starter rope until engine fires at least once. A "POP" at the muffler indicates the engine is firing.
6. Open choke slightly.
7. Pull starter again - engine should start.
8. As engine begins to run, open choke gradually.
9. If engine begins to die, close choke slightly.

NOTE: If fuel drips out of carburetor while trying to start engine, the engine is over choked. Pull starter several times with choke open.

To Stop Engine

Move throttle control back to stop position and/or remove key.

Operating Instruction

IMPORTANT: While familiarizing yourself with the snowthrower use only moderate throttle speeds and use only slower speed ranges; (speed ranges 1 and 2 are recommended).

Practice before operating your snowthrower under actual snow blowing conditions.

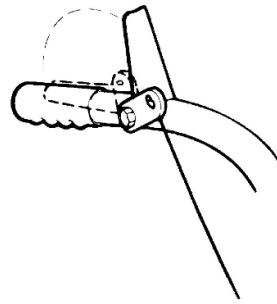
1. Assume operating position behind unit and start engine. **While familiarizing yourself with the controls, set the throttle at moderate speed.**

IMPORTANT: When throwing snow, always use "FAST" throttle speed. (When engine has warmed up and the choke lever has been moved to "off" position, the engine is ready for snow throwing.)

2. To obtain impeller operation; (See III. 3.)

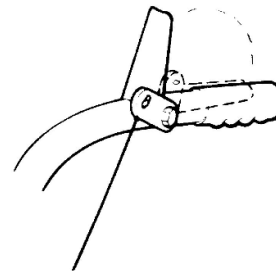
IMPORTANT: Be sure front of unit is clear of bystanders or obstacles before operating impeller.

Squeeze impeller drive lever (right hand handle). The impeller is now operating.



III. 3

3. To disengage impeller drive; release impeller drive lever.
4. To obtain forward motion;
 - a) Place gear shift lever in desired position (as recommended above).
 - b) Slowly squeeze ground drive lever (see III. 4) (left hand handle) to engage ground drive.



III. 4

IMPORTANT: To prevent damage to the rubber friction wheel, DO NOT attempt to change speed range while ground drive lever on handle is engaged.

5. To stop forward motion; Release ground drive lever.
6. To obtain reverse motion; Pull speed control lever back to "reverse 1 or 2 position". Move throttle to slow position. Squeeze ground drive lever (left hand handle) to engage drive.
7. To stop reverse motion; Release ground drive lever.
8. Operation of discharge chute and deflector; The direction of snow discharged from the chute can be varied approximately 200° from left to right.

To discharge snow to your left, turn chute control rod handle clockwise. Rotate handle anticlockwise to obtain snow discharge to your right. The distance the snow will be thrown can be adjusted by tilting the deflector up or down.

CAUTION: Always stop engine before changing deflector position. Keep hands away from chute and deflector when impeller is operating. The type and depth of snow will also influence distance snow can be thrown.

Service Instructions

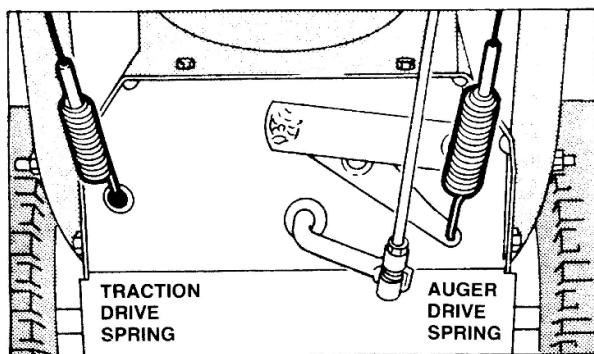
CAUTION: Always stop engine and disconnect spark plug wire before cleaning, lubricating or adjusting your snowthrower.

Belt Adjustment

"V" Belts stretch slightly during normal use. Consequently the drive belts may require adjustment after the first few hours of operation.

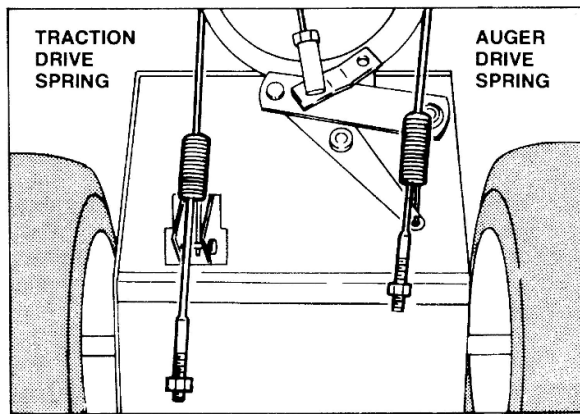
If auger drive belt or traction drive disc slips under normal load, adjustment is required.

1. Disconnect cable from control lever on handle.
2. Push cable down and expose threaded end of control cable from spring, III. 5. Holding the squared end of the threaded portion with vice grips, use an adjustable wrench and turn nut clockwise in one turn increments until slippage is eliminated.
3. Pull cable threaded end back into spring and re-attach cable to control lever



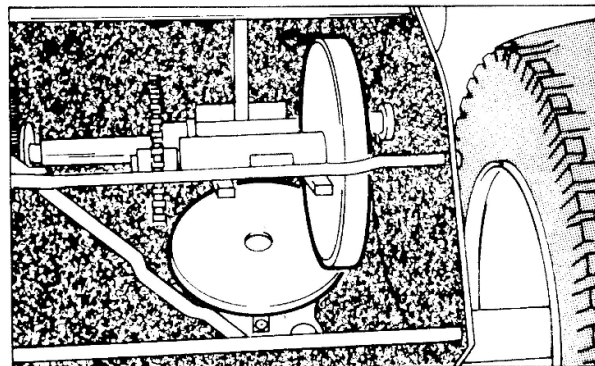
III. 5

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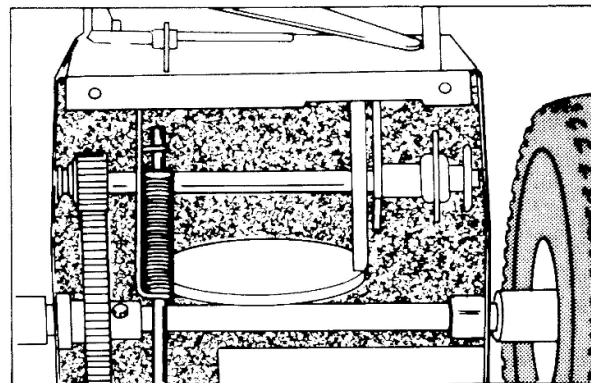
III. 5

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III. 6

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III. 6

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IMPORTANT: Over adjustment of friction disc will result in permanent damage to the drive train.

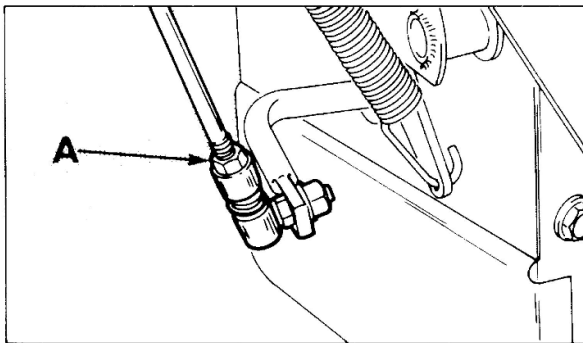
Friction Wheel Adjustment

Alignment of friction wheel and drive plate.

1. Using an adjustable wrench, remove inspection panel of drive unit.
2. Position gear shift lever in 6th gear.
3. Note position of rubber friction wheel on drive plate. It should be as per Ill. 6. If the rubber friction wheel is positioned as per Ill. 6 no adjustment is necessary.

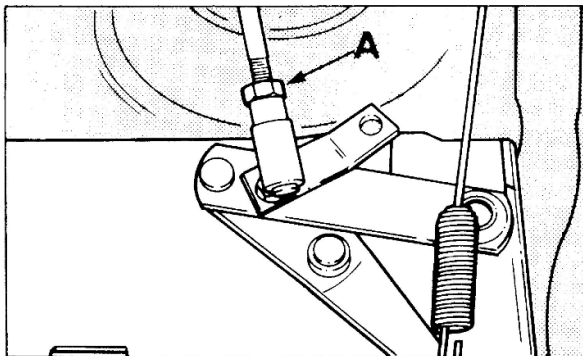
If adjustment is required, proceed as follows (see Ill. 7):

1. Using an adjustable wrench, loosen jam nut "A" on speed select rod (Ill. 7). Remove ball joint from shifter bracket, lengthen or shorten rod to obtain correct friction wheel position.
2. Replace ball joint, tighten jam nut.
3. Replace rear panel.



Ill. 7

Models A 8280, A 1032

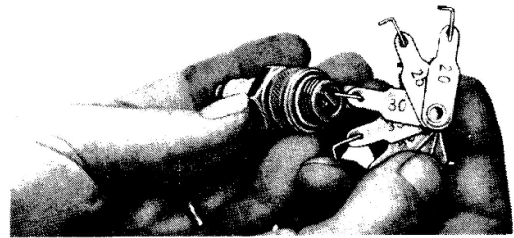


Ill. 7

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Changing Spark Plug (see Ill. 8)

Check the condition of the spark plug every twenty-five (25) operating hours. If the plug is fouled in any way, replace with a Champion RJ17LM or equivalent. Set the electrode gap at .030 inch. Apply a light film of graphite grease on the threads before installing.



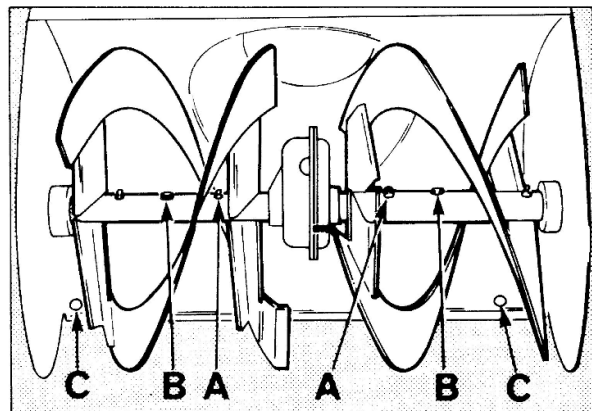
Ill. 8

Auger Shear Bolts (see Ill. 9)

When an obstruction occurs between the auger and the housing, auger and gear box damage may be prevented by a breakable type shear bolt (B). If the shear bolt(s) should break because of an obstruction, proceed as follows:

CAUTION: To insure safety and performance levels, only genuine replacement shear bolts should be used. When replacing shear bolts be sure to include shear bolt spacer.

1. Pull throttle to STOP, disengage all controls, disconnect the spark plug lead wire, and insure all moving parts have stopped.
2. Remove the obstruction and replace the shear bolt(s).
3. Lubricate the auger shaft zerks (A) if shear bolts are replaced (see Lubrication). Rotate the auger several revolutions to insure the components do not bind.

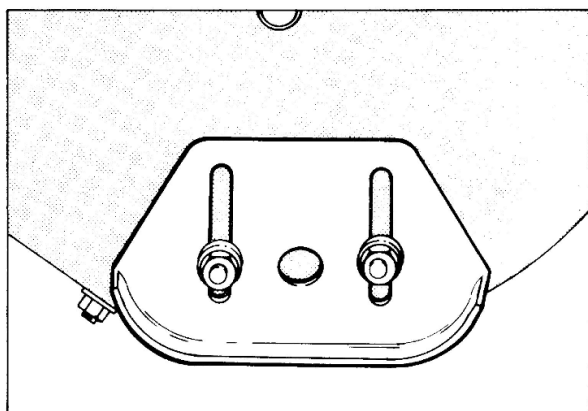


Ill. 9

Adjusting Scraper Bar (see III. 9)

After considerable usage, the metal scraper bar will have a definite wear pattern. The scraper bar in conjunction with the runners should always be adjusted to allow one-eighth of an inch between the scraper bar and the sidewalk or area to be cleaned. To adjust the scraper bar, proceed as follows:

1. Position the snowthrower on a level surface.
2. Loosen the carriage bolts (C) and nuts securing the scraper bar to the auger housing. (See III. 9)
3. Adjust the scraper bar to the proper position. Tighten the carriage bolts and nuts, insuring that the scraper bar is parallel with the working surface.
4. For extended operation, the scraper bar may be reversed. If the scraper bar must be replaced because of wear, remove the carriage bolts and nuts and install a new scraper bar.



III. 10

Adjusting Runners (see III. 10)

The auger housing is equipped with two (2) height adjusting runners. Raising or lowering these runners establishes the distance maintained between the scraper bar and the working surface. To adjust the runners, proceed as follows:

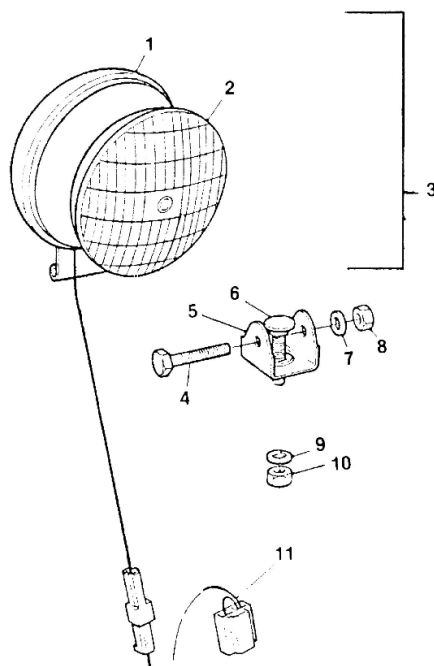
1. Position the snowthrower on a level surface and loosen the two (2) nuts retaining the runners.

NOTE: The nuts are located on the outside of the auger housing side plates.

2. When using the snowthrower on gravel or crushed rock surfaces, the runners should be adjusted approximately one and one-fourth inch below the scraper bar.
3. Always insure the runners are parallel with a level surface at the time of adjustment. Tighten nuts securely.

It may be necessary to adjust the runner fully upward when using the snowthrower in wet or hard-packed snow. If the snow surface is rough or bumpy the snowthrower will have a tendency to lurch left and right as the two auger sections contact the snow. When these conditions exist, select a lower gear (1, 2, 3) to maintain the necessary forward movement.

Light Kit (optional)



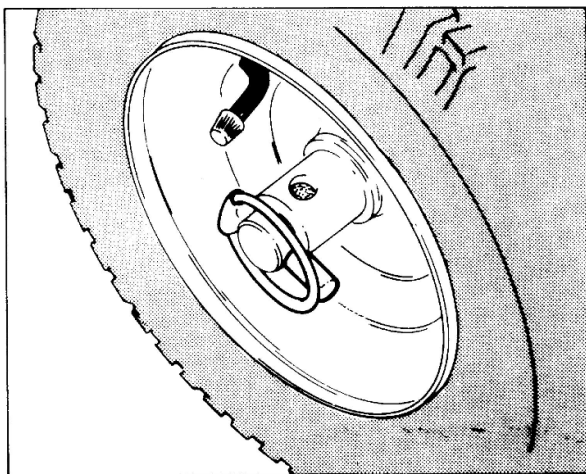
Ref. No.	GPE. No.	Description
1	630103	Light Housing
2	630095	Sealed Beam
3	630053	Light Assy. (1,2)
4	458547	3/8-16 x 1 3/4 HHCS
5	662650	Brkt. Light Mounting
6	153676	5/16-18 x 3/4 Bolt W/Hole
7	150185	3/8 Split Lockwasher
8	715391	3/8-16 Hex Nut
9	311118	5/16 Split Lockwasher
10	310045	5/16-18 Hex Nut
11	630079	Wire Harness TEC

Wheel Lock Out Pin (see III. 11)

The left hand wheel is secured to the axle with a klik pin.

When maximum traction is required the klik pin should be located through the hole in the wheel hub and the corresponding hole in the axle. This locks both wheels to the axle and provides solid axle drive (no differential).

When lighter conditions prevail, for ease of operation remove the klik pin from the wheel and locate it through the hole in the axle outboard of the wheel hub. This unlocks the left hand wheel from the axle giving a differential effect.



III. 11

Lubrication

NOTE: The snowthrower should be lubricated every fifteen (15) hours of operation and no less than once a year.

Using SAE20 oil, lubricate all control linkage pivot points every fifteen (15) operating hours.

Remove the rear panel. Using SAE20 oil, lubricate all bearings, pivot points, and the hex shaft every fifteen (15) operating hours.

Replace the rear panel.

Using a hand grease gun, lubricate the auger shaft every fifteen (15) operating hours. Each time a shear bolt is replaced, the auger shaft MUST be greased.

CAUTION: Do not allow any oil to come in contact with the rubber drive wheel or the friction drive plate: damage to rubber drive wheel may result.

Off-Season Storage

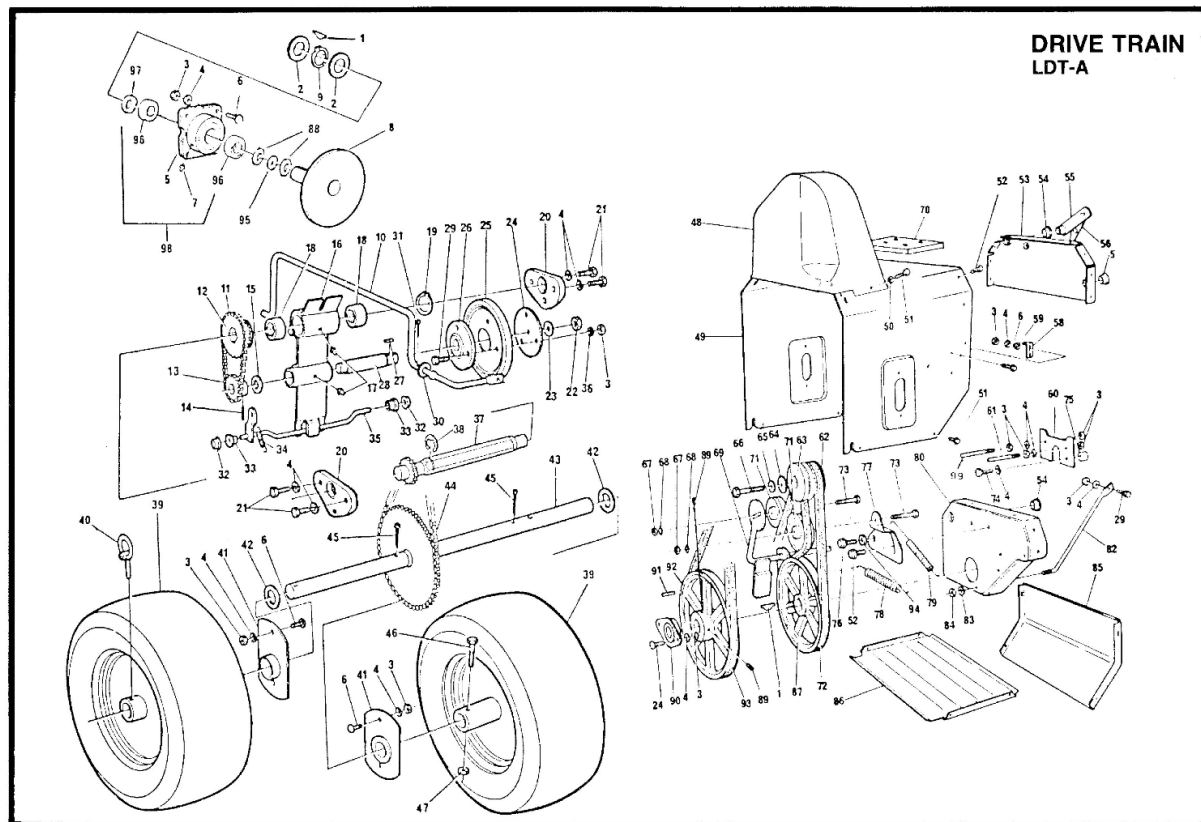
If the snowthrower is to be stored for thirty (30) days or more or at the end of the snow season, the following steps are recommended to prepare your snowthrower for storage.

1. Thoroughly clean the snowthrower.
2. Drain the gasoline from the fuel tank by removing the fuel line at the fuel shut-off valve.

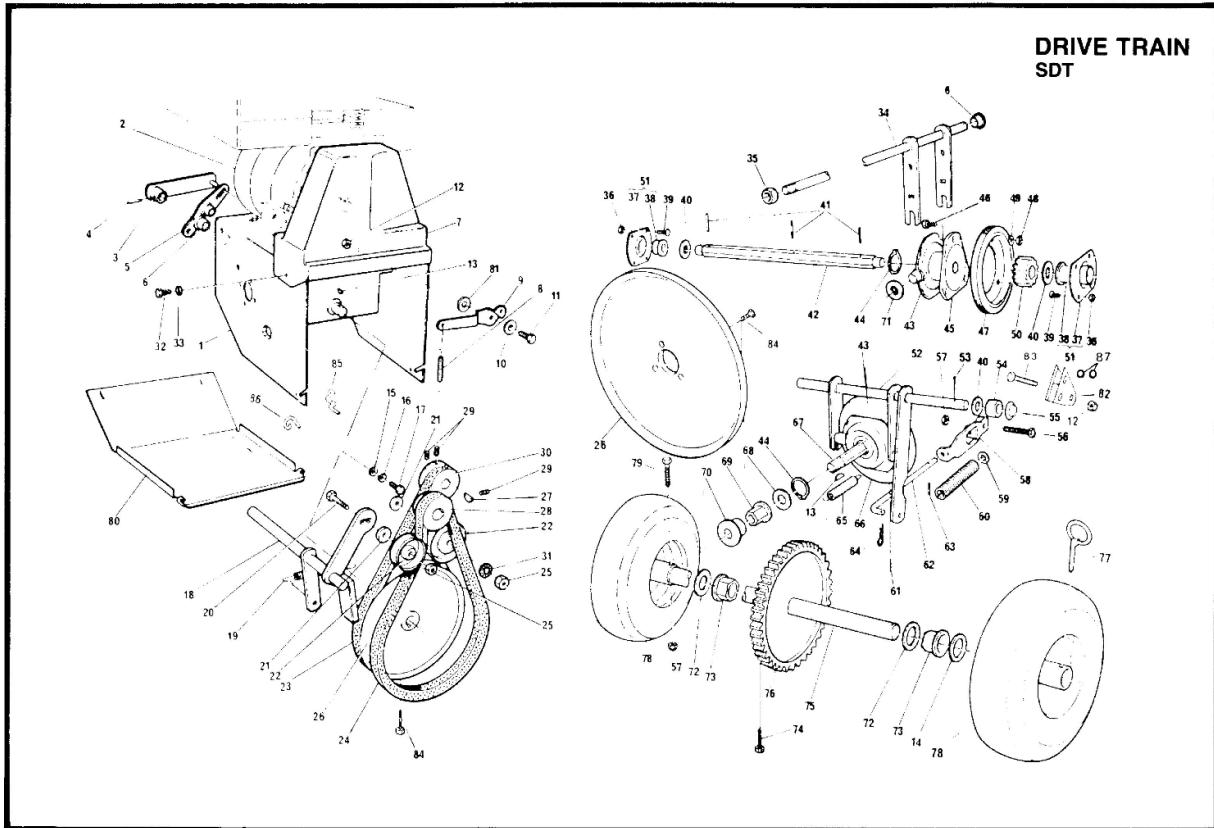
NOTE: Close fuel shut-off valve before removing the fuel line. Allow gasoline to drain into a container. Replace the fuel line to the fuel shut-off valve.

WARNING: Drain gasoline outdoors away from fire or flame.

3. Start the engine and run at SLOW speed (idle) until the engine stops from fuel exhaustion. Fuel tank, fuel line carburetor, and the engine should now be free from gasoline.
4. Remove the spark plug and squirt one (1) ounce of engine oil into the cylinder. Pull the recoil starter rope slowly which will allow the piston to coat the internal engine parts. Install an old spark plug; this prevents fouling a new plug with the preservative used to lubricate the internal parts of the engine. Close the choke and plug the muffler opening.
5. Lubricate all lubrication points (see Lubrication, page 10).
6. Insure that all nuts, bolts, and screws are securely fastened. Inspect all visible moving parts for damage, breakage, and wear. Replace if necessary.
7. Touch up all rusted or chipped paint surfaces; sand lightly before painting.
8. Cover the bare metal parts of the blower housing auger, and the impeller with rust preventative.
9. If possible, store your snowthrower indoors and cover it to give protection from dust and dirt.
10. If the machine must be stored outdoors, block up the snowthrower and insure the entire machine is off the ground. Cover the snowthrower with a heavy tarpaulin.



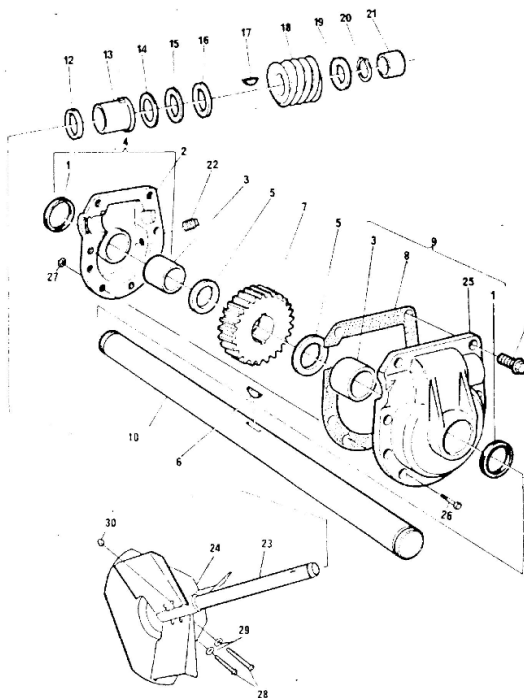
Ref. No.	GPE. No.	Description	Ref. No.	GPE. No.	Description	Ref. No.	GPE. No.	Description
1	153080	Hy Pro Key 3/16	41	662890	MF Brkt. Axle Bearing	82	783845	Rod Spindle Support
2	461830	Race Thrust	42	461798	Washer Rear Axle	83	715094	1/4 Split Lockwasher
3	310045	5/16-18 Hex Nut	43	662882	Axle	84	310052	1/4-20 Hex Nut
4	311118	5/16 Split Lock	44	707802	Chain (16 x 750 + 4.80 x 4.00 wheel)	85	663245	Rear Panel
5	707711	Spindle	45	489468	5/32 x 1-3/4 Cotter Pin	86	663054	Bottom Panel
6	313510	5/16-18 x 3/4 Carr Bolt	46	458547	3/8-16 x 1.75 HHCS	87	707586	Pulley 7"
7	707729	Grease Fitting	47	451195	3/8-16 Lock Nut	88	423517	Race Thrust
8	729897	Disc Assembly	48	672246	Belt Guard	89	153577	Set Screw
9	153296	Ring Retaining	49	662908	Motor Mount Frame	90	707703	Bearing Assy. 7/8
10	763342	Yoke Speed	50	715300	1/4 SAE Washer	91	153056	3/16 Sq. x 1-1/2 Key
11	425363	Chain 32 Link	51	153007	1/4-20 x 1/2 Self Tap	92	419713	Pulley 8.4
12	434761	Sprocket Drive Shaft	52	315085	5/16-18 x 1/2 Self Tap	93	707687	V-Belt Auger Drive
13	434951	Sprocket 8 Tooth	53	662957	PF End Plate Motor Mount	94	461996	7/16 SAE Washer
14	715193	3/16 x 3/4 Roll Pin	54	672261	Plastic Bushing	95	707562	Bearing Needle
15	461822	Washer Clutch	55	662973	Lever Auger Clutch	96	423228	Bearing Needle
16	428425	Clutch Plate	56	662981	Lever Clutch Cable	97	707760	Seal Spindle
17	415737	Grease Fitting	57	672287	Grommet	98	707570	Spindle Assembly
18	423475	Bearing Hex Shaft	58	662916	Brkt. Clutch Adj.	99	153528	Belt Retainer R.H.
19	790709	Retainer	59	715185	5/16 SAE Washer			
20	707737	Drive Bearing Assembly	60	663005	Plate Belt Guide Tec.			
21	312074	5/16-18 x 5/8 HHCS	61	153536	Belt Retainer L.H.	Not Shown	663294	Tire Chain 4.80 x 4.00-8
22	310029	3/8-24 Hex Nut	62	707745	Pulley Wheel Drive		663286	Tire Chain 16 x 7.50-8
23	150185	3/8 Split Lockwasher	63	663013	Pulley Auger Drive			
24	153502	Washer - Special	64	153031	Washer (Tec. Engine)			
25	431619	Friction Wheel	65	153023	3/8 Split Lock Washer Tec. Engine			
26	788315	Hub Drive Roller	66	153544	3/8-24 x 1-1/2 Bolt (Tec.)			
27	446890	Key 1/8 Sq. x 3/8	67	715524	3/8-16 Hex Jam Nut			
28	418178	Shaft Friction Wheel	68	153551	3/8 Ext. Lockwasher			
29	312066	5/16-18 x 3/4 HHCS	69	662965	Auger Idler			
30	460824	1/2 SAE Washer	70	662999	Engine Riser			
31	715029	Cotter Pin	71	420745	Idler Pulley			
32	452219	3/8 Retainer Cap	72	707596	V-Belt 39			
33	707638	Bushing	73	153015	3/8-16 x 1-1/4 HHCS			
34	775684	Spring Return	74	153064	5/16-24 x 1 HHCS			
35	763417	WF Yoke Drive	75	153569	Spacer Belt Guide			
36	153510	5/16 Int. Lockwasher	76	459008	Shoulder Bolt			
37	663369	Shaft Hex	77	771246	Idler Bracket			
38	707794	Crescent Retaining Ring	78	775718	Spring Auger Brake			
39A	041145	Wheel 16 x 750-8	79	707695	Spring Drive Idler			
39B	041152	Wheel 4.80 x 4.00	80	662924	Spindle Plate			
40	489211	Klik Pin	81	715177	5/16-18 Center Locknut			



Ref. No.	GPE. No.	Description	Ref. No.	GPE. No.	Description	Ref. No.	GPE. No.	Description
1	662379	Frame Engine Mtg.	37	707398	Flange Bearing	78A	041137	Wheel Assy. 4.10 x 3.50-4
2A	610022	Engine 5HP-3.73kw	38	707380	Bearing	78B	498451	Wheel Assy. 13 x 500-6
2B	610030	Engine 8HP-5.97kw	39	153163	10-24 x 1/2 Carriage Bolt	79	312090	Bolt 1/4-20 x 1-1/2 gr. 5
3	662601	Assy. Lever Auger Clutch	40	460824	1/2 SAE Washer	80	662627	Bottom Panel
4	153106	Roll Pin	41	314112	1/8 x 3/4 Roll Pin	81	707067	Spacer
5	662619	Assy. Lever Clutch Cable	42	707166	Hex Shaft	82	662387	Pivot Traction Clutch
6	672204	Plastic Bushing	43	662833	Assy. Trunion Bearing	83	150045	5/16-18 x 1-1/4 HHCS
7	707307	Cover Belt	44	153262	Retainer 1-1/4	84	153114	Set Screw
8	662817	Spring Traction	45	662551	Hub Friction Wheel	85	662635	Belt Guide 8HP L.H.
9	707273	Lever Idler	46	153171	1/4-20 x 5/8 HHCS	86	662643	Belt Guide 8HP R.H. & 5HP L. & R.H.
10	153247	Washer 14 Ga.	47	707141	Friction Wheel	87	153569	Spacer
11	312066	5/16-18 x 3/4 HHCS	48	310052	1/4-20 Hex Nut			
12	715177	5/16-18 Center Locknut	49	715094	1/4 Split Lockwasher			
13	153080	Hypoc Key	50	707174	Pinion 8 Tooth			
14	663476	Retainer Axle	51	707182	Bearing Assy.			
15	663484	Washer Belt Retainer	52	662478	Shaft Traction Clutch			
16	311118	5/16 Split Lockwasher	53	317016	1/8 x 1 Cotter Pin			
17	153064	5/16-24 x 1 HHCS	54	707109	Bushing Shaft Traction			
18	712281	Auger Idler Assy.	55	153205	Push Nut			
19	662825	Spring Impeller Brake	56	312108	1/4-20 x 1-1/4 HHCS			
20	153015	3/8-16 x 1.25 HHCS	57	152967	1/4-20 Center Locknut			
21	715417	3/8 SAE Washer	58	662585	Bracket Traction Clutch			
22	707273	Idler Pulley	59	715185	5/16 SAE Washer			
23A	707224	V-Belt Traction Drive 4 & 5HP-2.98 & 3.73kw	60	662841	Spring Traction Clutch			
23B	707810	V-Belt Traction Drive 6,7 & 8HP-4.47, 5.22 & 5.97kw	61	153122	Spring Pin 1/8 x 1-3/8			
24	707232	V-Belt Auger Drive	62	662593	Rod Traction			
25	153684	3/8-16 nte Nut	63	153130	Spring Pin 1/8 x 1/2			
26	707216	Pulley Traction Drive	64	715029	Cotter Pin			
27	151548	Woodruff Key #3	65	662858	Spring Return			
28	707257	Engine Pulley Auger Drive	66	662866	Disc Drive			
29	153049	Set Screw	67	707133	Shaft - Hex Traction			
30A	707240	Engine Pulley - P.T.O. 5HP	68	153270	Washer Thrust			
30B	707406	Engine Pulley - P.T.O. 8HP	69	707091	Bearing Shaft Traction			
31	153551	3/8 Internal Lockwasher	70	707083	Bushing Shaft Traction			
32	153007	1/4-20 x 1/2 Self Tap	71	153155	Washer Trunion			
33	715300	1/4 SAE Washer	72	153239	Washer 16 Ga.			
34	662437	Assy. Speed Control Shaft	73	707828	Bearing Axle			
35	310011	3/8-16 Center Locknut	74	153148	Bolt Axle			
36	715334	10-24 Keps Nut	75	662577	Axle - Wheel Drive			
			76	707414	Gear 48 Tooth			
			77	153619	Klik Pin			

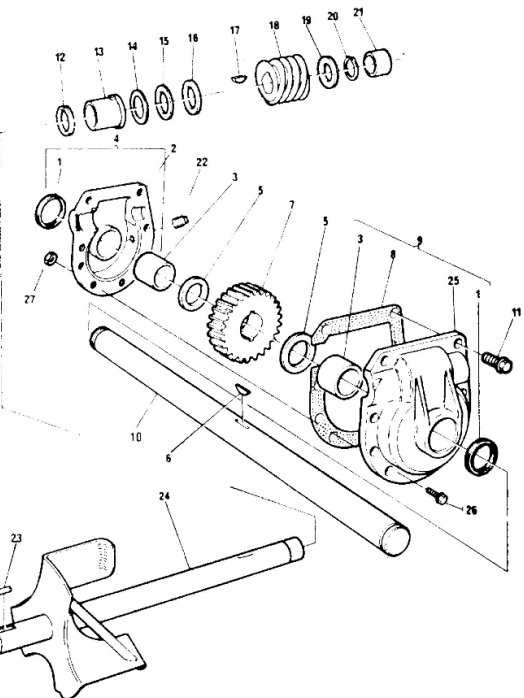
Models A 8280, A 1032

REPAIR PARTS

GEAR BOX LGB		Ref. No.	GPE. No.	Description
		1	707471	Seal
		2	707547	Housing L.H.
		3	707463	Bearing
		4	707455	Housing Assy. L.H.
		5	707430	Race Thrust
		6	153353	Key Woodruff #91
		7	707422	Gear Worm
		8	707448	Gasket
		9	707489	Housing Assembly R.H.
		10A	663328	Auger Shaft 28"
		10B	663336	Auger Shaft 32"
		11	153486	5/16-24 x 1-3/4 HHCS
		12	153346	Ring Quad
		13	153338	Bearing Impeller Shaft
		14	153320	Race Thrust
		15	153312	Bearing Needle
		16	153304	Race Thrust
		17	153080	Key HP606
		18	707513	Worm
		19	152959	Race Thrust
		20	153296	Ring Retainer
		21	707505	Bearing Impeller Shaft
		22	153288	Plug Pipe
		23	663344	Impeller Shaft
		24	663104	Impeller Assembly
		25	707539	Housing R.H.
		26	153064	5/16-24 x 1 HHCS
		27	153189	5/16-24 x 2-1/4 HHCS Gr. 8
		28	153148	1/4-20 x 2-1/4 HHCS Gr. 8
		29	715300	1/4 SAE Washer
		30	152967	1/4-20 Centre Locknut

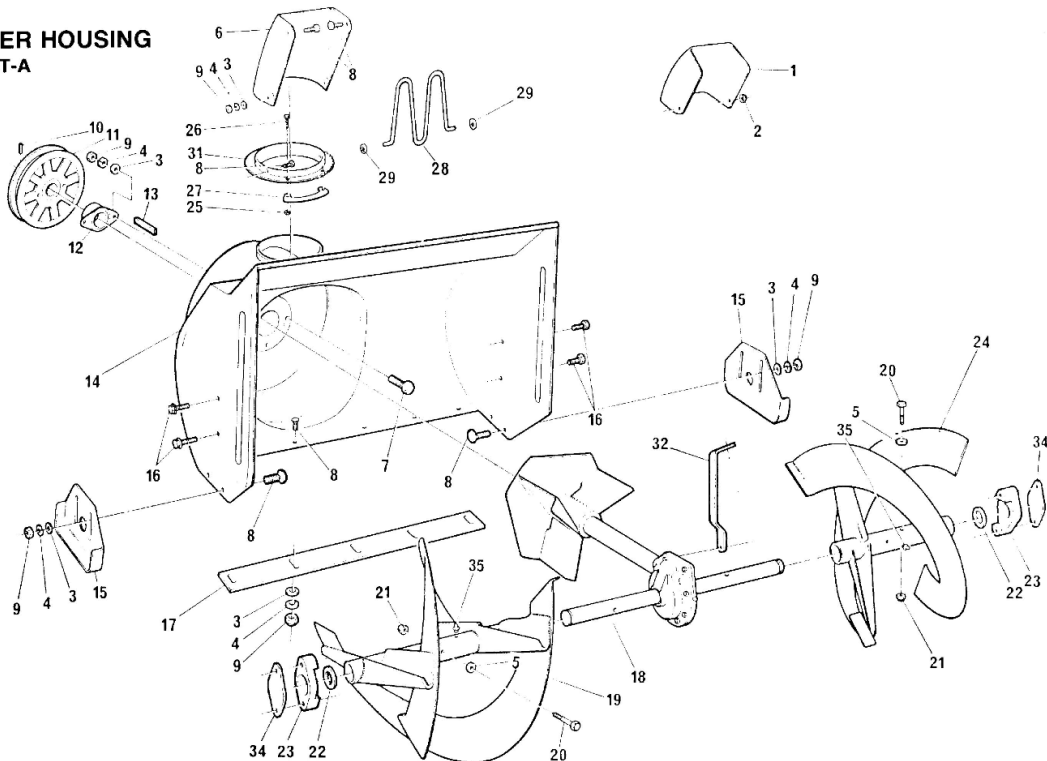
Models A 5230, A 8250

REPAIR PARTS

GEAR BOX SGB		Ref. No.	GPE. No.	Description
		1	707471	Seal
		2	707547	Housing L.H.
		3	707463	Bearing
		4	707455	Housing Assy. L.H.
		5	707430	Race Thrust
		6	153353	Woodruff Key #91
		7	707422	Gear - Worm
		8	707448	Gasket
		9	707489	Housing Assy. R.H.
		10A	662486	Auger Shaft 23"
		10B	662494	Auger Shaft 25"
		11	153361	5/16-24 x 1-3/4 HHCS
		12	153346	Ring - Quad
		13	153338	Bearing Impeller Shaft
		14	153320	Race Thrust
		15	153312	Bearing Needle
		16	153304	Race Thrust
		17	153080	Key HP606
		18	707513	Worm
		19	152959	Race Thrust
		20	153296	Ring Retainer
		21	707505	Bearing Impeller Shaft
		22	153288	Plug Pipe
		23	153056	3/16 Square x 1.12 Key
		24	707521	Impeller Shaft Assy.
		25	707539	Housing R.H.
		26	153064	5/16-24 x 1 HHCS
		27	153189	5/16-24 Flange Locknut

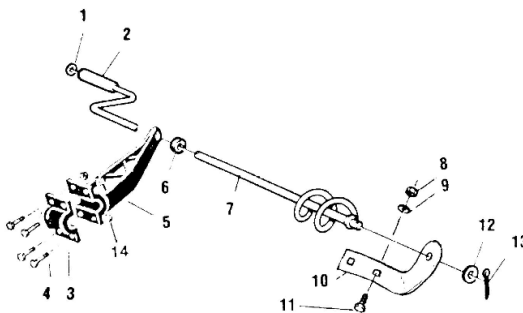
Models A 8280, A 1032

AUGER HOUSING LAHST-A



Ref. No.	GPE. No.	Description
1	663203	Chute Deflector
2	310151	5/16-18 Nylock Nut
3	715185	5/16 SAE Washer
4	311118	5/16 Split Lockwasher
5	153692	Spacer Shear Bolt
6	663179	Chute Extension
7	312074	5/16-18 x 3/8 HHCS
8	313510	5/16-18 x 3/4 Carr Bolt
9	310045	5/16-18 Hex Nut
10	153114	Set Screw
11	707190	Pulley 8.4"
12	662460	Bearing Assy. 7/8
13	153056	3/16 Sq. Key
14A	663070	28" Auger Housing
14B	663062	32" Auger Housing
15	662569	Height Adj. Skid
16	457523	5/16-18 x 3/4 Self Tap
17A	663096	28" Scraper Bar
17B	663088	32" Scraper Bar
18A	707653	28" Gear Box
18B	707646	32" Gear Box
19A	663146	28" Auger R.H.
19B	663138	32" Auger R.H.
20	153494	Shear Bolt
21	715177	5/16 Locknut
22	153700	Spacer Washer
23	707661	Bearing Auger Shaft
24A	663120	28" Auger L.H.
24B	663112	32" Auger L.H.
25	452102	8-32 Centre Locknut
26	458232	8-32 x 1/2 HHCS
27	790642	Retainer Snow Chute
28	662692	Hand Guard
29	152991	Retainer Hand Guard
31	663153	Flange Chute Rotate
32	663351	Gear Box Bracket
34	153718	Spacer Auger Shaft
35	415687	Grease Fitting

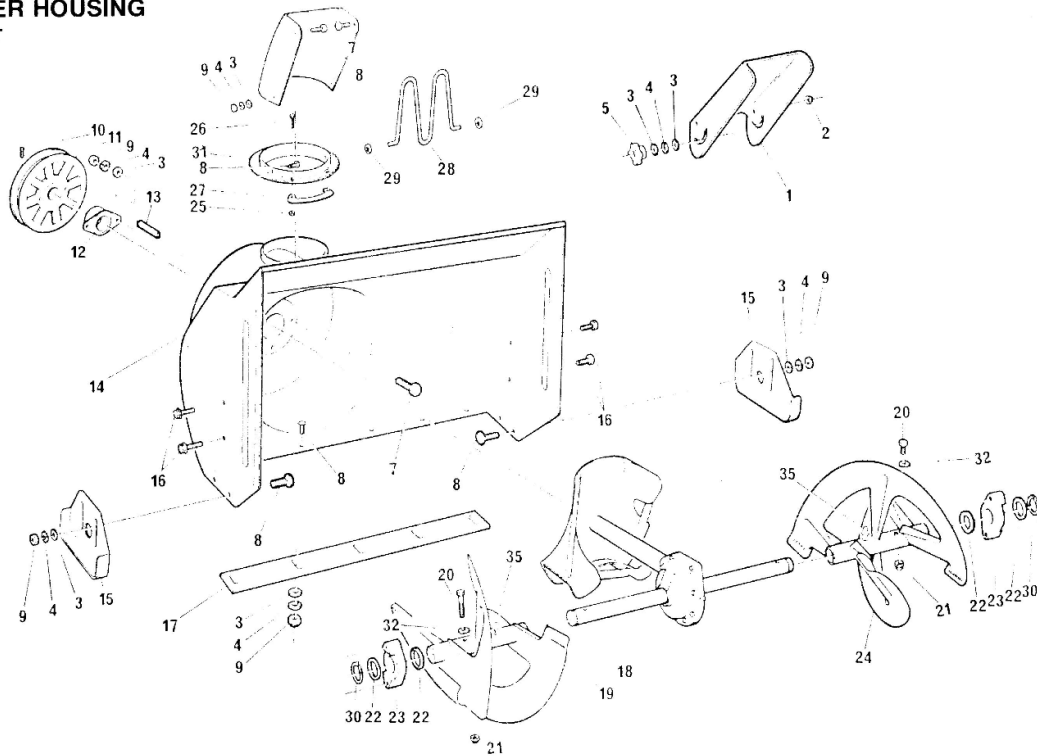
CHUTE CONTROL LCO



Ref. No.	GPE. No.	Description
1	152926	Retainer
2	672253	Knob
3	663260	Clamp
4	150169	1/4-20 x 1 HHCS
5	663252	Bracket Crank
6	672220	Grommet
7	663278	Crank
8	310045	5/16-18 Hex Nut
9	311118	5/16 Split Lockwasher
10	663468	Bracket Crank
11	313510	5/16-18 x 3/4 Carr Bolt
12	715417	3/8 SAE Washer
13	715029	3/32 x 3/4 Cotter Pin
14	150391	1/4 Locknut

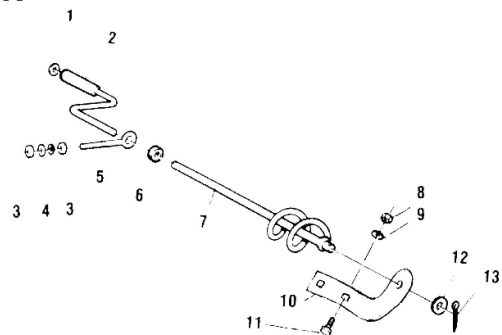
Models A 5230, A 8250

AUGER HOUSING SAHST



Ref. No.	GPE. No.	Description
1	662718	Chute Deflector
2	310151	5/16-18 Nylock Nut
3	715185	5/16 SAE Washer
4	311118	5/16 Split Lockwasher
5	707323	Wing Nut
6	662684	Chute Extension
7	312074	5/16-18 x 5/8 HHCS
8	313510	5/16-18 x 3/4 Carr Bolt
9	310045	5/16-18 Hex Nut
10	153114	Set Screw
11	707190	Pulley
12	662460	Bearing Assy. 7/8
13	153056	3/16 Sq. Key
14A	662411	25" Auger Housing
14B	662403	23" Auger Housing
15	662569	Height Adjuster Skid
16	457523	5/16-18 x 3/4 Self Tap
17A	662445	25" Scraper Bar
17B	662429	23" Scraper Bar
18A	707299	25" Gear Box
18B	707281	23" Gear Box
19A	662528	25" Auger R.H.
19B	662510	23" Auger R.H.
20	152900	Shear Box
21	152967	Locknut
22	153387	Spacer Washer
23	707661	Bearing Auger Shaft
24A	662536	25" Auger L.H.
24B	662502	23" Auger L.H.
25	452120	8-32 Centre Lock Nut
26	458232	8-32 x 1/2 HHCS
27	790642	Ret. Snow Chute
28	662692	Hand Guard
29	152991	Retainer Hand Guard
30	153395	Retainer Auger Shaft
31	662668	Flange Chute Rotate
32	153726	Spacer Shear Bolt
35	415687	Grease Fitting

CHUTE CONTROL SCO



Ref. No.	GPE. No.	Description
1	152926	Retainer
2	672253	Knob
3	715524	3/8-16 Jam Nut
4	150185	3/8 Split Locknut
5	458984	Eye Bolt
6	672220	Grommet
7	662791	Crank
8	310045	5/16-18 Hex Nut
9	311118	5/16 Split Lockwasher
10	662783	Bracket Crank
11	313510	5/16-18 x 3/4 Carr Bolt
12	715417	3/8 SAE Washer
13	715029	3/32 x 3/4 Cotter Pin

Models A 8280, A 1032

REPAIR PARTS

HANDLE LHOS

Ref. No.	GPE. No.	Description	Ref. No.	GPE. No.	Description
1	315085	5/16-18 x 1/2 Self Tap	22	645671	Throttle Control
2	744243	Knob	23	657056	Lower Handle
3	707331	Throttle Knob	24	153585	5/16-18 x 3 full thread
4	153007	1/4-20 x 1/2 Self Tap	25	150201	Saddle Washer
5	715185	5/16 SAE Washer	26	707323	Wing Nut
6	311118	5/16 Split Lockwasher	27	152934	5/16-24 Hex Nut
7	310045	5/16-18 Hex Nut	28	715524	3/8-16 Hex Jam Nut
8	663310	Control Panel	29	150185	3/8 Split Lockwasher
9	662742	Hand Control L.H.	30	458984	"Eye" Bolt
10	312280	5/16-18 x 1-3/4 HHCS	31	672220	Grommet
11	451195	3/8-16 Nylock Nut	34	312066	5/16-18 x 3/4 HHCS
12	707315	Handle Grip	35	645622	Spring Auger Clutch
13	645655	Cable	36	707612	Spring Traction Clutch
14	657023	Upper Handle L.H.	37	150391	1/4-20 Locknut
15	645630	Spring Compression	38	707372	Ball Joint
16	662734	Brkt. Speed Control	39	662759	Hand Control R.H.
17	662726	Handle Speed Control	40	663542	Pivot Pin
18	715029	3/32 x 3/4 Cotter Pin	41	153767	Cap Nut
19	662767	Rod Speed Control	42	672394	Clutch Handle Bumper
20	657031	Upper Handle R.H.	43	312322	3/8-16 x 3/4 HHCS
21	662775	Adaptor Rod Speed Control	44	715417	3/8 SAE Washer

Models A 5230, A 8250

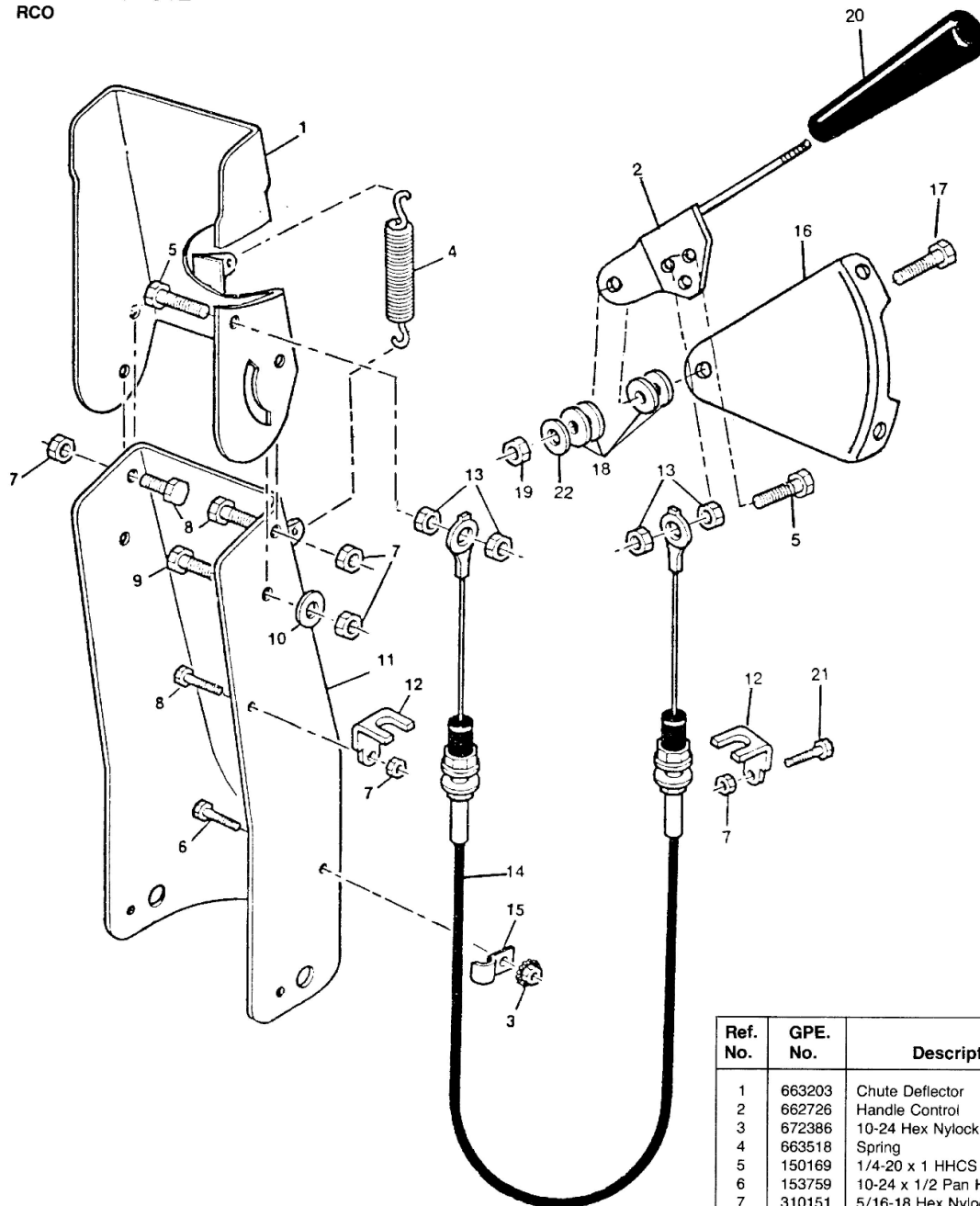
REPAIR PARTS

HANDLE SHOS

Ref. No.	GPE. No.	Description	Ref. No.	GPE. No.	Description
1	315085	5/16-18 x 1/2 Self Tap	23	657049	Lower Handle
2	744243	Knob	24	153585	5/16-18 x 3 HHCS full thread
3	707331	Throttle Knob	25	150201	Saddle Washer
4	153007	1/4-20 x 1/2 Self Tap	26	707323	Wing Nut
5	715185	5/16 SAE Washer	27	152934	5/16-24 Hex Nut
6	311118	5/16 Split Lockwasher	28	715524	3/8-16 Jam Nut
7	310045	5/16 Hex Nut	29	150185	3/8 Split Lockwasher
8	662700	Control Panel	30	458984	"Eye" Bolt
9	662742	Hand Control L.H.	31	672220	Grommet
10	312280	5/16-18 x 1-3/4 HHCS	32	153106	Roll Pin
11	451195	5/16-18 Nylock Nut	33	662452	Speed Control Lever
12	707315	Handle Grip	34	312066	5/16-18 x 3/4 HHCS
13	645614	Cable	35	645622	Spring Auger Clutch
14	657023	Handle Upper L.H.	36	662874	Spring Drive Clutch
15	645630	Spring Compression	37	152967	1/4-20 Locknut
16	662734	Bracket Speed Control	38	707372	Ball Joint
17	662726	Handle Speed Control	39	662759	Hand Control R.H.
18	715029	3/32 x 3/4 Cotter Pin	40	663542	Pivot Pin
19	662767	Rod Speed Control	41	153767	Cap Nut
20	657031	Handle Upper R.H.	42	672394	Clutch Handle Bumper
21	662775	Adaptor Rod Speed Control	43	312322	3/8-16 x 1-3/4 HHCS
22	645606	Throttle Control	44	715417	3/8 SAE Washer

REPAIR PARTS

REMOTE CHUTE RCO



Ref. No.	GPE. No.	Description
1	663203	Chute Deflector
2	662726	Handle Control
3	672386	10-24 Hex Nylock Nut
4	663518	Spring
5	150169	1/4-20 x 1 HHCS
6	153759	10-24 x 1/2 Pan Head
7	310151	5/16-18 Hex Nylock Nut
8	312074	5/16-18 x 5/8 HHCS
9	313510	5/16-18 x 3/4 Carr. Bolt
10	715185	5/16 SAE Washer
11	663179	Snow Chute Extension
12	663526	Bracket Cable
13	150391	1/4-20 Hex Nylock Nut
14	645697	Cable Assy.
15	663534	Clamp Cable
16	662734	Bracket Control
17	312322	3/8-16 x 1-3/4 HHCS
18	645648	Spring Washer
19	451195	3/8-16 Nylock Nut
20	744243	Knob
21	153742	5/16-18 x 2-1/4 Full Thread
22	715417	3/8 SAE Washer



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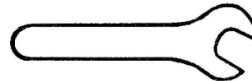
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Tools you will need:

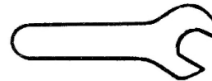
a) Pliers



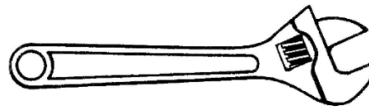
b) 1/2" Wrench



c) 7/16" Wrench



d) Adjustable Wrench



PART # 4245

IMPORTANT:

INCLUDED IN THIS OWNER'S KIT ARE TWO REPLACEMENT SHEAR BOLTS WITH SPACERS.

BE SURE TO INSTALL THESE SPACERS WHEN REPLACING YOUR SHEAR BOLTS.

ALWAYS USE ORIGINAL EQUIPMENT SHEAR BOLTS ON YOUR SNOW BLOWER TO ENSURE MAXIMUM PERFORMANCE AND SAFETY.

PLEASE READ YOUR OWNER'S MANUAL THOROUGHLY.

THANK YOU

IMPORTANT:

DANS CETTE TROUSSE D'ENTRETIEN Y SONT INCLUS DEUX BOULONS CISAILLÉS ET DEUX CYLINDRES D'ESPACEMENT.

LES BOULONS CISAILLÉS NE DOIVENT PAS ÊTRE REMPLACÉS SANS REMPLACER EN MÊME TEMPS LES CYLINDRES D'ESPACEMENT.

POUR S'ASSURER LE FONCTIONNEMENT MAXIMUM ET SÛR DE VOTRE CHASSE-NEIGE, TOUJOURS UTILISER LES BOULONS CISAILLÉS TELS QUE CEUX ORIGINELS.

PRIÈRE DE LIRE À FOND VOTRE MANUEL D'ENTRETIEN.

MERCI